

## EPI KSP56 Series

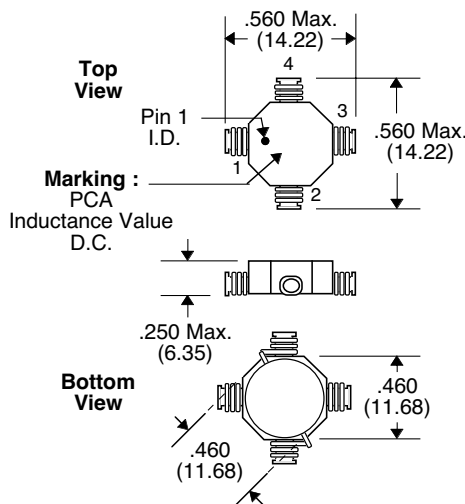


- Low loss material ensures operation in high frequency switching converters, such as Buck, Boost or as output averaging filter inductor
- Also suitable for use in high quality filter applications and as a Coupled Inductor
- Low cost Robust construction to withstand most SMT processes

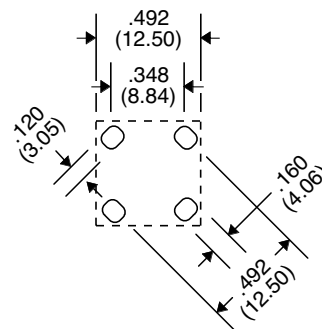
### Primary Specification

Part Number	Connection	Inductance ( $\mu\text{H} \pm 20\%$ ) @ 0 Adc	Inductance ( $\mu\text{H} \text{ Min.}$ ) @ Idc	DCR ( $\Omega \text{ Max.}$ )	I dc (Amps)
EPI0L3702KSP56	Series	1.76	1.2	.016	3.5
	Parallel	0.44	.30	.004	7.0
EPI0L5602KSP56	Series	3.10	2.0	.020	3.0
	Parallel	0.78	.50	.005	6.0
EPI0L8502KSP56	Series	4.80	3.2	.024	2.5
	Parallel	1.20	.80	.006	5.0
EPI1L1492KSP56	Series	7.00	4.4	.028	2.45
	Parallel	1.76	1.1	.007	4.9
EPI2L6442KSP56	Series	19.6	10.4	.056	2.2
	Parallel	4.90	2.6	.014	4.4
EPI4L3352KSP56	Series	33.2	17.2	.076	1.75
	Parallel	8.30	4.3	.019	3.5
EPI4L8342KSP56	Series	38.4	19.2	.080	1.7
	Parallel	9.60	4.8	.020	3.4
EPI6L8302KSP56	Series	56.8	27.2	.096	1.5
	Parallel	14.2	6.8	.024	3.0
EPI100212KSP56	Series	78.4	40.0	.220	1.05
	Parallel	19.6	10.0	.055	2.1

### Package KSP56



### Schematic



- Notes :**
1. Temperature Rise : 40°C Max. @ Idc
  2. Inductance Change at Idc : 40% Max.

Unless Otherwise Specified Dimensions are in Inches /mm  $\pm .010 / .25$

## EPI KSP56 Series

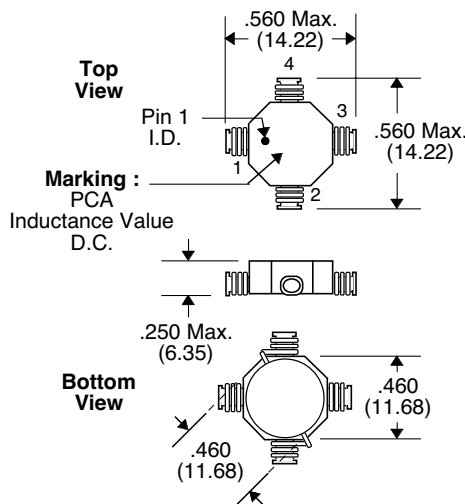


- Low loss material ensures operation in high frequency switching converters, such as Buck, Boost or as output averaging filter inductor
- Also suitable for use in high quality filter applications and as a Coupled Inductor
- Low cost Robust construction to withstand most SMT processes

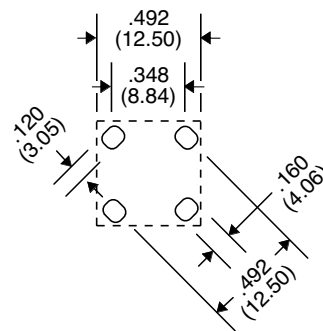
### Primary Specification

Part Number	Connection	Inductance ( $\mu\text{H} \pm 20\%$ ) @ 0 Adc	Inductance ( $\mu\text{H Min.}$ ) @ Idc	DCR ( $\Omega$ Max.)	I dc (Amps)
EPI130202KSP56	Series	104	52	.256	1.0
	Parallel	26	13	.064	2.0
EPI170182KSP56	Series	132	68	.288	.90
	Parallel	33	17	.072	1.8
EPI250152KSP56	Series	200	100	.440	.75
	Parallel	50	25	.111	1.5
EPI350122KSP56	Series	268	140	.630	.80
	Parallel	67	35	.158	1.2
EPI550921KSP56	Series	400	220	1.21	.46
	Parallel	100	55	.303	.92
EPI770821KSP56	Series	600	308	1.49	.41
	Parallel	150	77	.372	.82
EPI111641KSP56	Series	800	440	2.18	.32
	Parallel	200	110	.545	.64
EPI151621KSP56	Series	1200	600	2.69	.31
	Parallel	300	150	.672	.62

### Package KSP56



### Schematic



### Recommended Layout

- Notes :**
1. Temperature Rise : 40°C Max. @ Idc
  2. Inductance Change at Idc : 40% Max.

Unless Otherwise Specified Dimensions are in Inches /mm  $\pm .010 / .25$

